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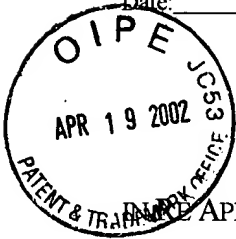
April 16, 2002

By:

Patricia M. [Signature]

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION OF: BRIAN G. AGEE ET AL.

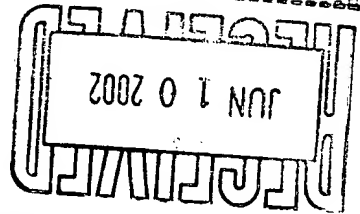
APPLICATION NO.: 09/920,903

FILED: August 3, 2001

FOR: HIGHLY BANDWIDTH EFFICIENT COMMUNICATIONS

ART UNIT: 2631

CONFIRMATION NO.: 8061



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APR 22 2002

Technology Center 2600

Information Disclosure Statement Within Three Months of Application Filing or Before First Action – 37 CFR 1.97(b)

Commissioner for Patents
Washington, D.C. 20231

Sir:

1. Timing of Submission

This information disclosure is being filed within three months of the filing date of this application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever occurs last [37 CFR 1.97(b)]. The references and related application listed on the enclosed Form PTO/SB/08A (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

☒ Copies of the following references and related application are enclosed:

- ☒ All cited references
- ☐ References marked by asterisks
- ☐ The following:

☐ Copies of the following references can be found in parent application Ser. No.

- ☐ All cited references
- ☐ References marked by asterisks
- ☐ The following:

☐ The following references are not in English. For each such reference, the undersigned has enclosed (i) a translation of the reference; (ii) a copy of a

communication from a foreign patent office or International Searching Authority citing the reference, (iii) a copy of a reference which appears to be an English-language counterpart, or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.

- ☐ All cited references
- ☐ References marked by ampersands
- ☐ The following:

3. Effect of Information Disclosure Statement (37 CFR 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment

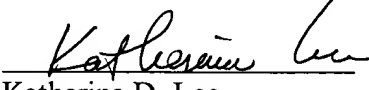
No fees are believed due. However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-0665.

5. Patent Term Adjustment (37 CFR 1.704(d))

- ☐ The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,

Date: April 11, 2002


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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

APR 19 2002

COMPLETE IF KNOWN

Application Number	09/920,903
Confirmation Number	8061
Filing Date	August 3, 2001
First Named Inventor	Brian G. Agee
Group Art Unit	2631
Examiner Name	

Sheet

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of

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Attorney Docket No. 101948023US21

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	AA	5,054,035		Tarallo et al.	10/1/91	
	AB	5,515,378		Roy III et al.	5/7/96	
	AC	5,541,954		Emi	7/30/96	
	AD	5,598,428		Sato	1/28/97	
	AE	6,160,839		Zhang	12/12/00	
	AF	6,359,923		Agee et al.	3/19/02	
	AG					
	AH					
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	AJ							
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T
	AN	CIMINI, Jr. LEONARD J., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing," July 1985, IEEE Transactions on Communications, Vol. Comm. 33, No. 7, pp. 665-675, IEEE, New York	
	AO	RAPPAPORT et al., editors, "Wireless Personal Communications: Trends and Challenges," 1994, Chapter 7, PP. 69-80, Kluwer Academic Publishers, Boston/Dordrecht/London	
	AP	JUNG P. et al., "On Multicarrier CDMA Mobile Radio Systems with Joint Detection and Coherent Receiver Antenna Diversity, 1996 5 th IEEE International Conference on Universal Personal Communications," Vol. 1, September 1996, pp. 61-65, IEEE, New York	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).